(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 27 January 2005 (27.01.2005)

PCT

(10) International Publication Number WO 2005/007619 A1

- (51) International Patent Classification⁷: C07C 273/14, B01J 2/16
- (21) International Application Number:

PCT/NL2004/000469

- (22) International Filing Date: 2 July 2004 (02.07.2004)
- (25) Filing Language:

English

(26) Publication Language:

English-

(30) Priority Data:

1023941

·17 July 2003 (17.07.2003) NL

- (71) Applicant (for all designated States except US): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MUTSERS, Stanislaus, Martinus, Petrus [NL/NL]; Eindstraat 9, NL-6166 EH Geleen (NL). BONGERS, Antonius, Jozef, Peter [NL/NL]; Julianalaan 37, NL-6124 AG Papenhoven (NL). WAGEMANS, Gerardus, Mathias, Cornelis [NL/NL]; Biesstraat 4 C, NL-6093 AD Heythuysen (NL).

- (74) Agent: SCHELTUS, Irma; DSM Intellectual Property, P.O. Box 9, NL-6160 MA Geleen (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF UREA GRANULES

(57) Abstract: Process for the preparation of urea granules in a fluid bed granulator comprising at least one inlet for fluidization air, a distribution plate above which the fluid bed is present and sprayers that are mounted in the distribution plate, from which the urea melt is sprayed on or over the urea particles present in the fluid bed, which particles are kept in motion by the fluidization air, characterized in that the fluidization air contains very finely atomized water and in that the urea concentration of the urea melt is higher than 97 wt.%.





